AVERY DENNISON | Inspired Brands. Intelligent World.™

AF032

Fasson ®
TRANSF PET MATT CHR TOP - S8001-BG42WH

The most versatile silver polyester for labelling electronic components and electrical goods.

Key features

> Excellent TT printability.

> High chemical resistance of TT print against harsh chemicals.

> Suitable for UV inkjet printing, qualified by EFI Jetrion and Durst.

> Acrylic adhesive offering high tack and peel adhesion on a wide variety of substrates, including low surface energy plastics.

> UL and CSA recognised label material.

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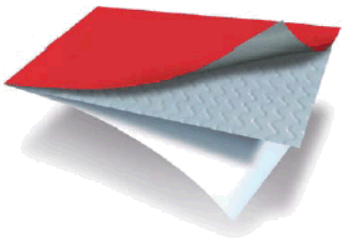

TRANSF PET MT TOP CHR	
S8001	
BG42WH	

Facestock
A matt finished metallic polyester film. The smooth surface is covered with a topcoat for excellent ink anchorage.

Basis Weight	65 g/m²	ISO 536
Caliper	50 µm	ISO 534

Adhesive
S8001 is a permanent acrylic adhesive with good initial tack and high ultimate adhesion onto a variety of substrates including apolar plastics and lacquers.

Liner
BG42 white, a supercalendered glassine paper.

Basis Weight	64 g/m²	ISO 536
Caliper	57 µm	ISO 534
Transparency	50 %	DIN 53147

Laminate

Total Caliper	134 µm±10%	ISO 534

Performance data

Initial Tack	15 N/25mm	FTM 9 Glass
Service temperature	-40°C to 150°C	
Peel Adhesion 90°	9 N/25mm	FTM 2 st.st. 24hr
Adhesive Type	Emulsion Acrylic	

Adhesive Performance
S8001 offers good resistance to solvents and cleaners. The adhesive has a high cohesion and can be used for labelling curved or round substrates.

Applications and use
Transfer PET matt chrome TOP was specially developed for industrial labels and thermal transfer applications. Thanks to the special surface coating, excellent results can be achieved with thermal transfer printers equipped with conventional or near-edge print heads using resin ribbons.
S8001 is specifically developed for labelling electronic, home appliance and other electrical items due to its good bonding performance on a wide range of polar and apolar surfaces including metals, polycarbonate, ABS and polypropylene. S8001 is available worldwide meaning it is suitable for global manufacturers seeking to consolidate label specifications around the world.

Conversion & printing
This product is qualified by EFI Jetrion and Durst for UV inkjet printing. In addition to thermal transfer printing it can also be printed by all conventional roll label techniques, such as flexo, UV letterpress, silkscreen. Specific testing is required.
For easy diecutting sharp corners should be avoided.

UL and CSA Recognitions
This product meets the requirements as stated in UL 969 and CSA C22.2 No. 0.15 for indoor and outdoor use. The UL file number is MH27538.

Shelf life

Two years under storage conditions as defined by FINAT (20-25°C; 40-50%RH)

All data to be considered as typical values and subject to change without prior notice. Further testing is always recommended.
If you would like to make a suggestion or comment on this datasheet, please send an email to datasheet.mgmt@eu.averydennison.com

Appendix 1:
Performance Data

Note: the following technical data should be considered representative or typical only and should not be used for specification purposes.

Peel Adhesion:
FTM1: 180°, 300 mm/min, dwell time: 48 hours

Surface	N/25mm
ABS	13,0
Aluminium	11,5
Automotive lacquered panels	10,5
Glass	12,0
HDPE	7,5
LDPE	8,0
PA6	10,5
Stainless Steel	15,0

Chemical Resistance:
The performance results are based on 4 hours immersions at room temperature unless otherwise noted. Samples were applied to the test panel and conditioned for 24 hours before immersion and evaluated immediately upon removal. Peel adhesion was measured according to FTM1.

Chemical	Test Substrate	N/25mm	Visual appearance	Edge Penetration (mm)
Ad Blue	Aluminium	11,5	No change	0
Biodiesel	Glass	11,0	No change	0
Bioethanol E85	Glass	11,5	No change	2
Brake Fluid	Glass	11,0	No change	0
Diesel	Glass	11,0	No change	0
Engine Oil	Glass	11,5	No change	0
Gasoline	Glass	8,0	No change	3
Heptane	Glass	10,0	No change	3
Water, distilled	Aluminium	7,5	No change	0
All purpose cleaner	Glass	8,5	No change	0
Bathroom cleaner	Glass	9,0	No change	0
Bleach	Glass	7,5	No change	0
Dishwashing detergent	Glass	9,0	No change	0

Chemicals: Ad Blue: Aral, Bioethanol E85: CropEnergies CropPower85, Brake Fluid: DOT 4 Synthetic (One Way)
Diesel: TOTAL, Engine Oil: TOTAL quartz 700, 10 W 40, Gasoline: TOTAL Euro 95
All Purpose Cleaner: Sagrotan Sea Breeze (Reckitt Benckiser), Bathroom Cleaner: Cillit Antikalk (Reckitt Benckiser)
Bleach: Danklorix (Colgate Palmoliv) , Dishwashing detergent:: Fairy Lemon (Procter& Gamble)

Thermal Transfer Printing:

Printability – Physical Resistance

Flat head printers (tests were performed with the printer Zebra XII 140):

Ribbon	Settings speed	Settings energy	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
Armor AXR7+	3	20	++	D[1]	++	++
Armor AXR8	3	15	++	D[1]	++	++
DNP R300	3	15	++	D[1]	++	++
DNP R510	3	20	++	D[1]	++	++
Iimak SP330	3	15	++	D[1]	++	++
ITW B324	3	15	++	D[1]	++	++
Ricoh B110CR	3	15	++	D[1]	++	++

Near edge printers (tests were performed with the printer Avery TTX 450 – Near Edge):

Ribbon	Settings	Print Quality	ANSI Grade	Scratch resistance	Tape resistance
Armor AXR 600	4 ”/s	++	D[1]	++	++
Armor AXR 800	4 ”/s	+	D[1]	++	o
Ricoh B120 E	4 ”/s	++	D[1]	+	+

ANSI (American National Standards Institute) Grade: information about barcode quality
A: excellent B: good C: acceptable D: readable with difficulty
++: excellent +: good o: acceptable -: poor
[1] The print quality is good, but due to the reflection of metallised films the contrast is low

Chemical Resistance

The printed samples were wetted on the surface with a soft clean cotton cloth soaked in the test solution by wiping 10 times back and forth with light pressure. After 5 seconds they were dried with a clean dry soft cloth. After 15 minutes the evaluation took place.

	AXR 7+	AXR8	R300	R510	SP330	B324	B110 CR	AXR 600	AXR 800	B120 E
Ad Blue	+	+	+	+	+	+	+	+	+	+
Anti-Freeze	+	+	+	+	+	+	+	+	+	+
Biodiesel	+	o	+	+	+	+	+	-	o	-
Bioethanol E85	-	+	+	+	+	+	+	-	o	-
Brake fluid	-	+	+	+	o	+	+	-	o	-
Cleaner solvent	+	+	+	+	+	+	+	-	-	-
Engine oil	+	+	+	+	+	+	+	+	+	o
Gasoline	-	o	-	+	-	-	-	-	-	-
Hard wax polish	+	+	+	+	+	+	+	-	-	-
Isopropanol	+	+	+	+	+	+	+	-	o	-
Spirit	-	+	+	+	+	+	+	-	o	-

+: good (no change) o: acceptable (minor change, still readable) -: poor

Chemicals:
Ad Blue: Aral, Anti-Freeze: Speedfrost "Speedfroil" 1:1 in water, Bioethanol E85: CropEnergies CropPower85

Brake Fluid: DOT 4 Synthetic (One Way), Cleaner Solvent:: “Caramba” Cold Cleaner, Engine Oil: TOTAL quartz 700, 10 W 40 Gasoline: TOTAL Euro 95, Hard Wax Polish: „Nigrin“ Hard Wax Polish

Appendix 2: Compliance Data: UL - Underwriters Laboratories (UL969)

This material is UL recognized for exposure indoors and outdoors to high humidity or occasional exposure to water, gasoline
or lubricating oils. Details are listed in the UL file MH27538.

Application Surface	Minimum Temperature (°C)	Maximum Temperature (°C)	I	I/O	Additional Conditions
Acrylic paint	-40	+150		X	O, G
Acrylic powder paint	-40	+150		X	-
Alkyd paint	-40	+150		X	O, G
Aluminum	-40	+150		X	O, G
Anodized aluminum	-40	+150		X	O, G
Epoxy paint	-40	+150		X	-
Epoxy powder paint	-40	+150		X	-
Galvanised steel	-40	+150		X	O, G
Polyester paint	-40	+150		X	O
Polyester powder paint	-40	+150		X	-
Polyurethane powder paint	-40	+150		X	-
Porcelain	-40	+150		X	-
Stainless steel	-40	+150		X	O, G
Glass	-40	+125		X	-
Chrome Treated Metal	-40	+100		X	-
Melamine	-40	+100		X	O, G
Phenolic – phenol formaldehyde	-40	+100		X	-
Polycarbonate	-40	+100		X	-
Unsaturated polyester – thermoset	-40	+100		X	O, G
ABS	-40	+80		X	O, G
Nylon	-40	+80		X	
Polybutylene terephthalate (PBT)	-40	+80		X	O
Polyethylene (PE)	-	+80	X		O
Polyphenylene oxide/ether (PPOX)	-40	+80		X	-
Polypropylene (PP)	-40	+80		X	O, G
Polystyrene (PS)	-40	+80		X	O
Polyvinyl chloride (PVC)	-40	+80		X	-
Polyvinylfluoride (PVF)	-40	+80		X	

I: indoors I/O: indoors and outdoors
G: Occasional exposure to gasoline (splashing) O: Occasional exposure to lubricating oils

The UL certification includes the printing with EFI Jetrion 4000 Series UV and the following thermal transfer ribbons: Astro-Med "RF", "RY", "RAF Blue", "R-5", Armor "AXR8", "AXR600", "AXR-7+", Coding Products "5940", "5640 Blue", "5440 Red", Dainippon "R-300", "R-510", "R-510 Green", "R-510 Blue", "R-510 Red" (Indoor Use Only), Dasco "DR-74", "DR-84", "TR6070", "TR6075", Datamax "SDR-A", "SDR-D", "SDR-5", "SDR-6", "SDR", "PGR", "SDR-4", "SDR-7", "SDR Millenium", Iimak "SH-36", "SP-330", "SP-410", "SP-575", "Primemark 255", Intermec "053258-2", "054048-4", "TMX 3200", "TMX 1500", ITW "B324", "R-90", "M-95", "R-91", Japan Pulp and Paper "Resin 1", "Resin 2 Blue", "Resin 2 Red (Indoor Use Only), "Resin 2 Green", Japan Pulp and Paper GmbH "Sigma P", Kurz "K-300", "K-500", "K-501", Mid-City Columbia "CGL-80HE", "MCC-23HE", Monarch "9446", NCR "Promark 3", "Pacesetter", "Ultra V", "Matrix Resin", "Perma Max", "K3", Peak "Ultra Premium", "Ultra Extreme", Ricoh "B110CR", "B110C", "120EC", "B110CX", RSI ID Technologies "Pressiza H", "Pressiza R", "Pressiza S", "Pressiza K", "Pressiza X", Sato "Premier 1", Sony

"4070", "4072", "4080", "4075", "4085", "5070", "4571", "TR6075", "TR6070", "Signature Series Resin", "TRX-75", Union Chemicar "US-300", Union Barcode Industries "HR06", Zebra "5095", "5175", "5100", "5463", "Z-1400", "Z-3100", "Z-4100" and "5555".

Appendix 2: Compliance Data

CSA – Canadian Standards Association

UL has tested this product according to the requirements described in CSA C22.2 No. 0.15.
This product is C-UL recognized for indoor and outdoor use, where exposed to wet locations.
The details are listed in the UL file number MH27538.

Group	Application Surface	Max. Temperature (°C)
Metals	Bare, plated or enamelled steel; bare, anodized or enamelled aluminium	+150
Electrostatic Coated Metal A	Polyester powder coat paint	+150
Electrostatic Coated Metal B	Acrylic powder coat paint	+150
Electrostatic Coated Metal C	Epoxy powder coat paint	+150
Electrostatic Coated Metal D	Polyurethane powder coat paint	+150
Plastic Group I	Phenolic, melamines, urea fomaldehyde	+100
Plastic Group II	Polyphenylene oxide, polyphenylene sulphide	+80
Plastic Group III	Polycarbonate, acetates, acrylics	+100
Plastic Group IV	Polyethylene, polypropylene, polybutylene	+80
Plastic Group V	Polyamide, polyimide	+80
Plastic Group VI	ABS, styrene, styrene acrylonitrile	+80
Plastic Group VII	PVC (rigid), PVC plasticized	+80
Plastic Group VIII	Glass-filled polyester, glass-filled epoxy	+80
PVF		+80

The C-UL certification includes the printing with EFI Jetrion 4000 Series UV and the following thermal transfer ribbons:

Astro-Med "RY", "RAF Blue", Armor "AXR8", "AXR600", "AXR-7+", Coding Products "5940", "5640 Blue", "5440 Red", Dainippon "R-300", "R-510", "R-510 Green", "R-510 Blue", "R-510 Red" (Indoor Use Only) "TR6070", "TR6075", Datamax "SDR-A", "SDR-D", "SDR-5", "SDR-6", "SDR", "SDR-7", "SDR Millennium", Iimak "SP-575", Intermec "053258-2", "054048-4", ITW "R-90", Japan Pulp and Paper "Resin 1", Kurz "K-500", Mid-City Columbia "CGL-80HE", "MCC-23HE", NCR "Promark 3", "Matrix Resin", Peak "Ultra Premium", "Ultra Extreme", Ricoh "B110CR", "B110C", "120EC", RSI ID Technologies "Pressiza S", "Pressiza K", "Pressiza X", Sato "Premier 1", Sony "4070", "5070", "TR6075", "TR6070", "Signature Series Resin", Union Chemicar "US-300" and Zebra "5100".

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